

Title: IMMUNE REACTIVITY TO HER-2/NEU PROTEIN FOR DIAGNOSIS AND TREATMENT OF MALIGNANCIES IN WHICH
THE HER-2/NEU ONCOGENE IS ASSOCIATED Express Mail No. EV336597813US
Inventor(s): Martin A. Cheever and Mary L. Disis Docket No. 920010.448C10

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
MELAALCRWGLLLALLPPGAASTQVCTGTDMLRRLPASPETHLDMLRHLYQGCQVVQGNLETYLPTNASLSFLQ

80 85 90 95 100 105 110 115 120 125 130 135 140 145 150
DIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILK

155 160 165 170 175 180 185 190 195 200 205 210 215 220 225
GGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTVCAAGGCA

230 235 240 245 250 255 260 265 270 275 280 285 290 295 300
RCKGPLPTDCCHEQCAAGCTGPKHSDCLACLFHNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACP

305 310 315 320 325 330 335 340 345 350 355 360 365 370 375
YNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLA

380 385 390 395 400 405 410 415 420 425 430 435 440 445 450
FLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGLGI

455 460 465 470 475 480 485 490 495 500 505 510 515 520 525
SWLGLRSLRELGSGLALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARCHCWGPGP

530 535 540 545 550 555 560 565 570 575 580 585 590 595 600
TQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPFVCVARC

605 610 615 620 625 630 635 640 645 650 655 660 665 670 675
PSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIIISAVVGILLVVVLGVVFGILI

680 685 690 695 700 705 710 715 720 725 730 735 740 745 750
KRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAGMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPV

755 760 765 770 775 780 785 790 795 800 805 810 815 820 825
AIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNW

830 835 840 845 850 855 860 865 870 875 880 885 890 895 900
CMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPIKWMALESILRRRFT

905 910 915 920 925 930 935 940 945 950 955 960 965 970 975
HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSE

980 985 990 995 1000 1005 1010 1015 1020 1025 1030 1035 1040 1045 1050
FSRMARDPQRFVVIQNEDLGPASPLDSTFYRSLLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRS

1055 1060 1065 1070 1075 1080 1085 1090 1095 1100 1105 1110 1115 1120 1125
STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDPSPLQRYSEDPTVPLPSETD

1130 1135 1140 1145 1150 1155 1160 1165 1170 1175 1180 1185 1190 1195 1200
GYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLTTPQ

1205 1210 1215 1220 1225 1230 1235 1240 1245 1250 1255
GGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPV

FIG. 1

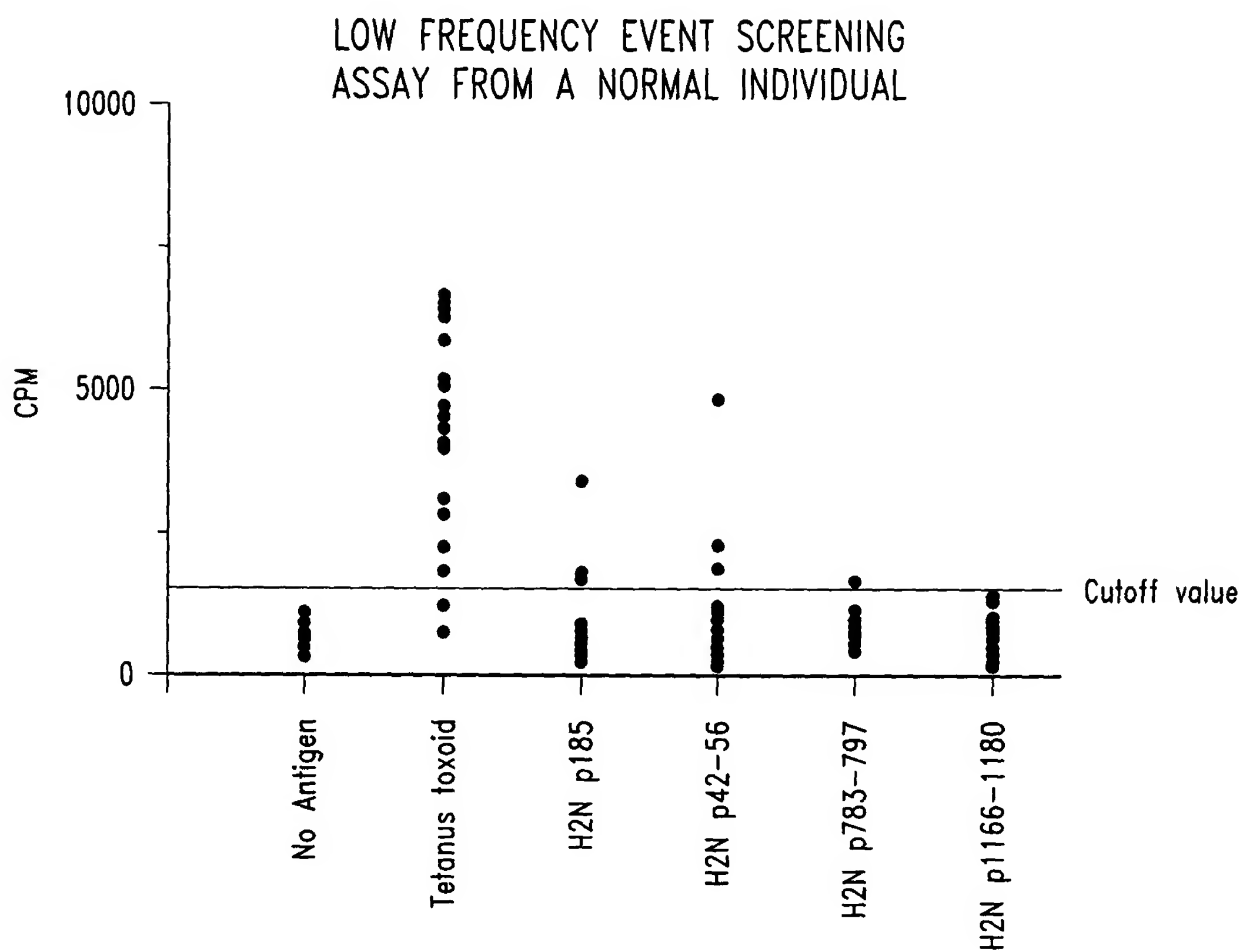


FIG. 2

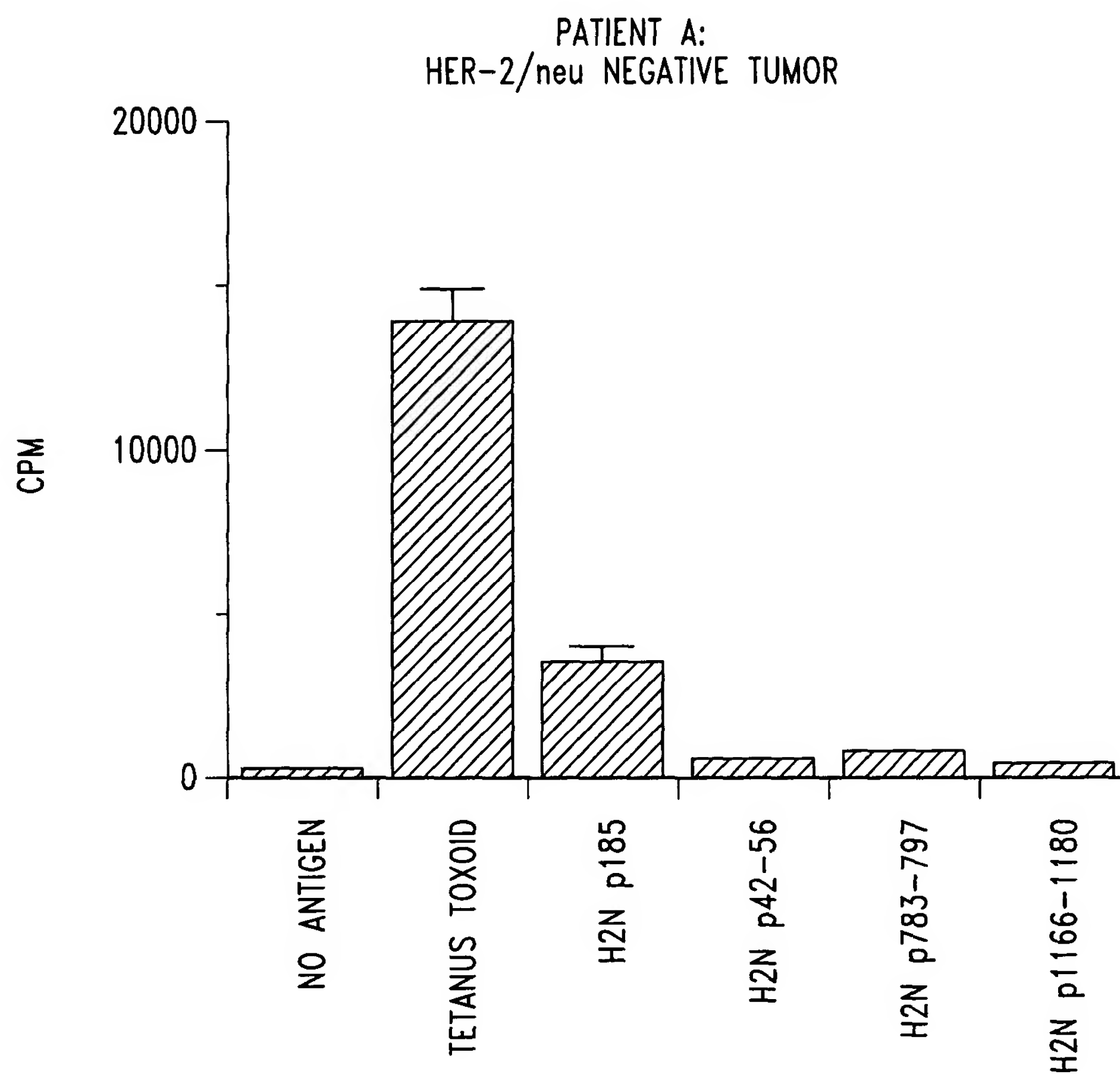


FIG. 3A

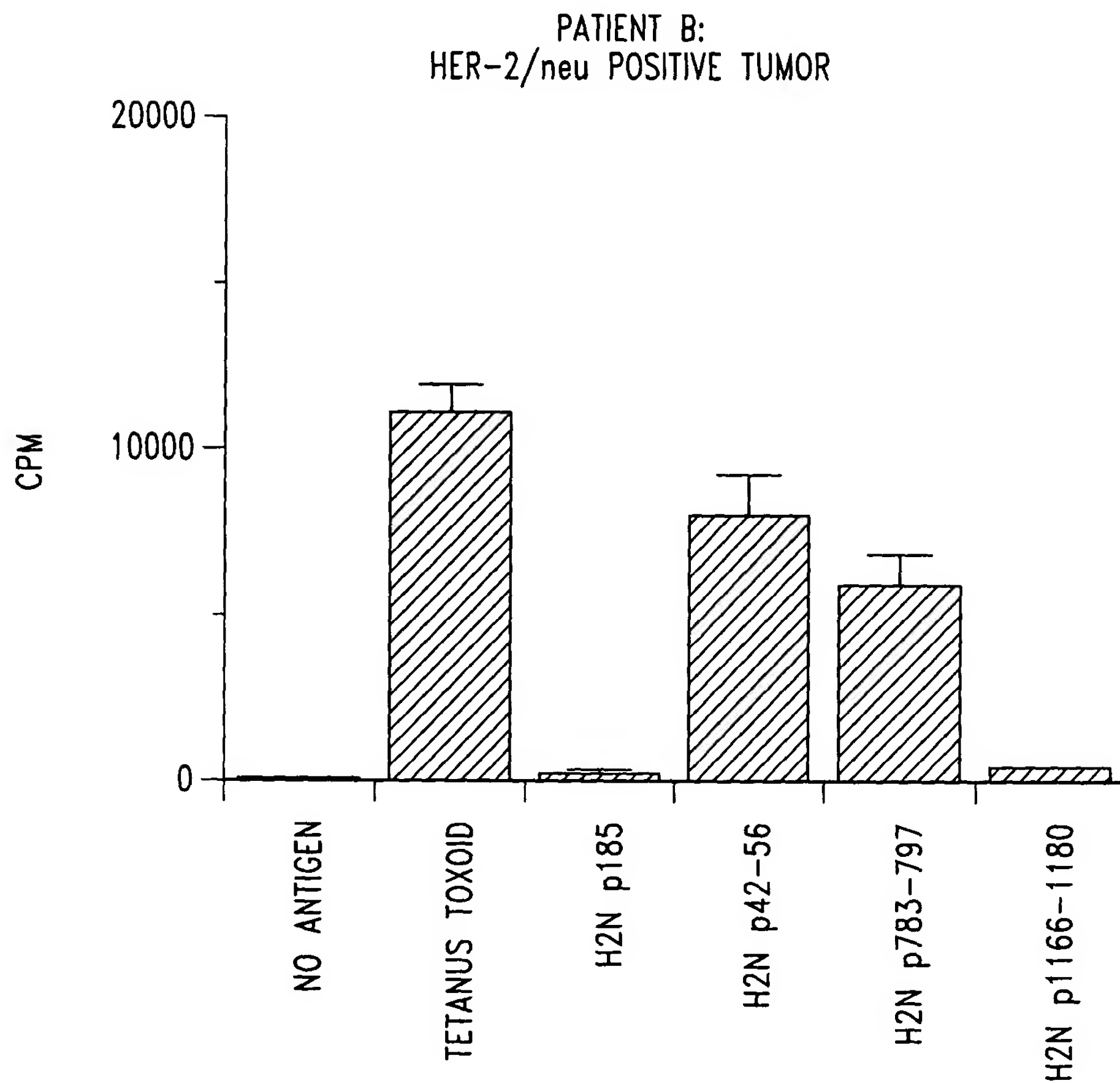


FIG. 3B

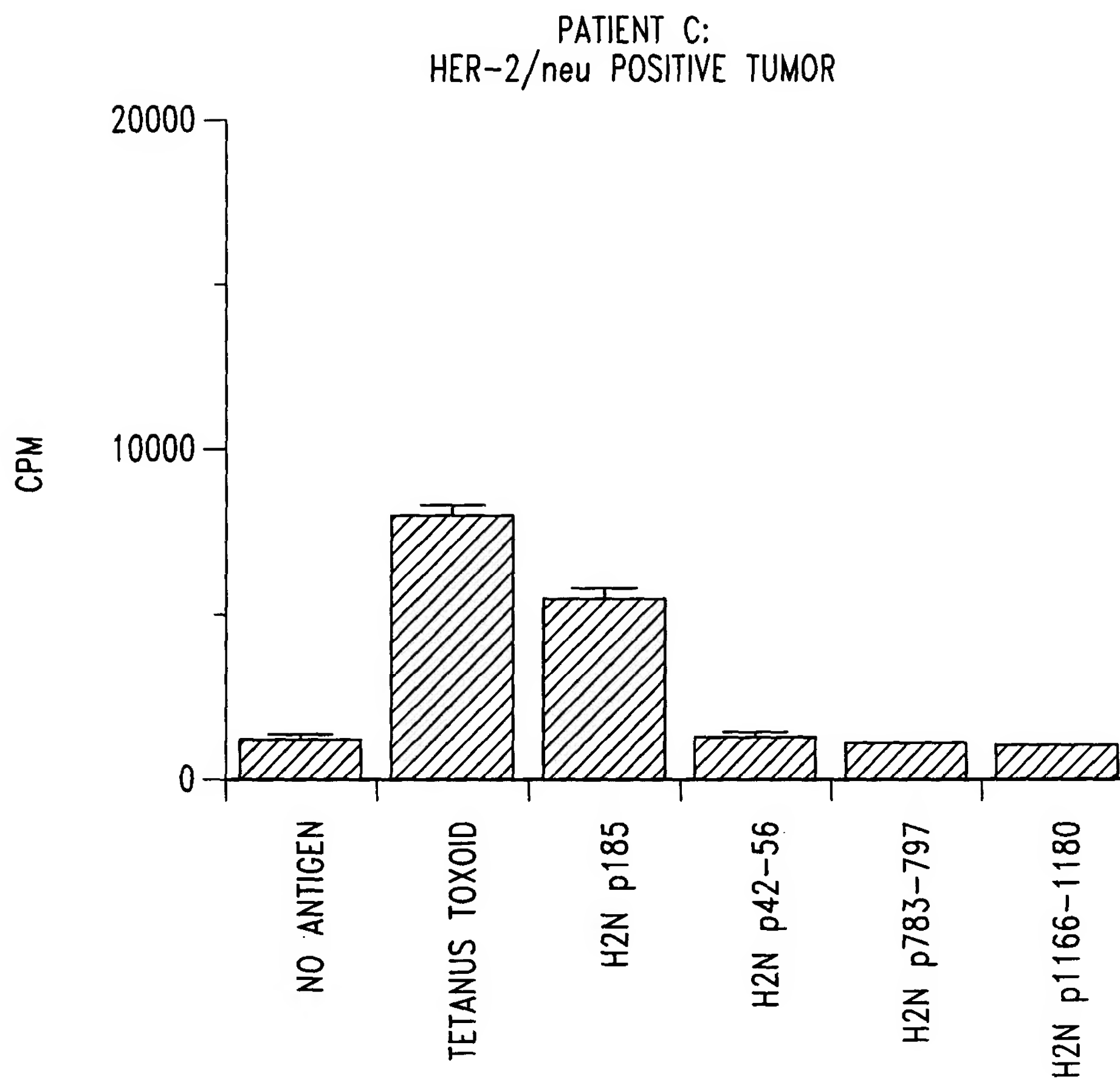


FIG. 3C

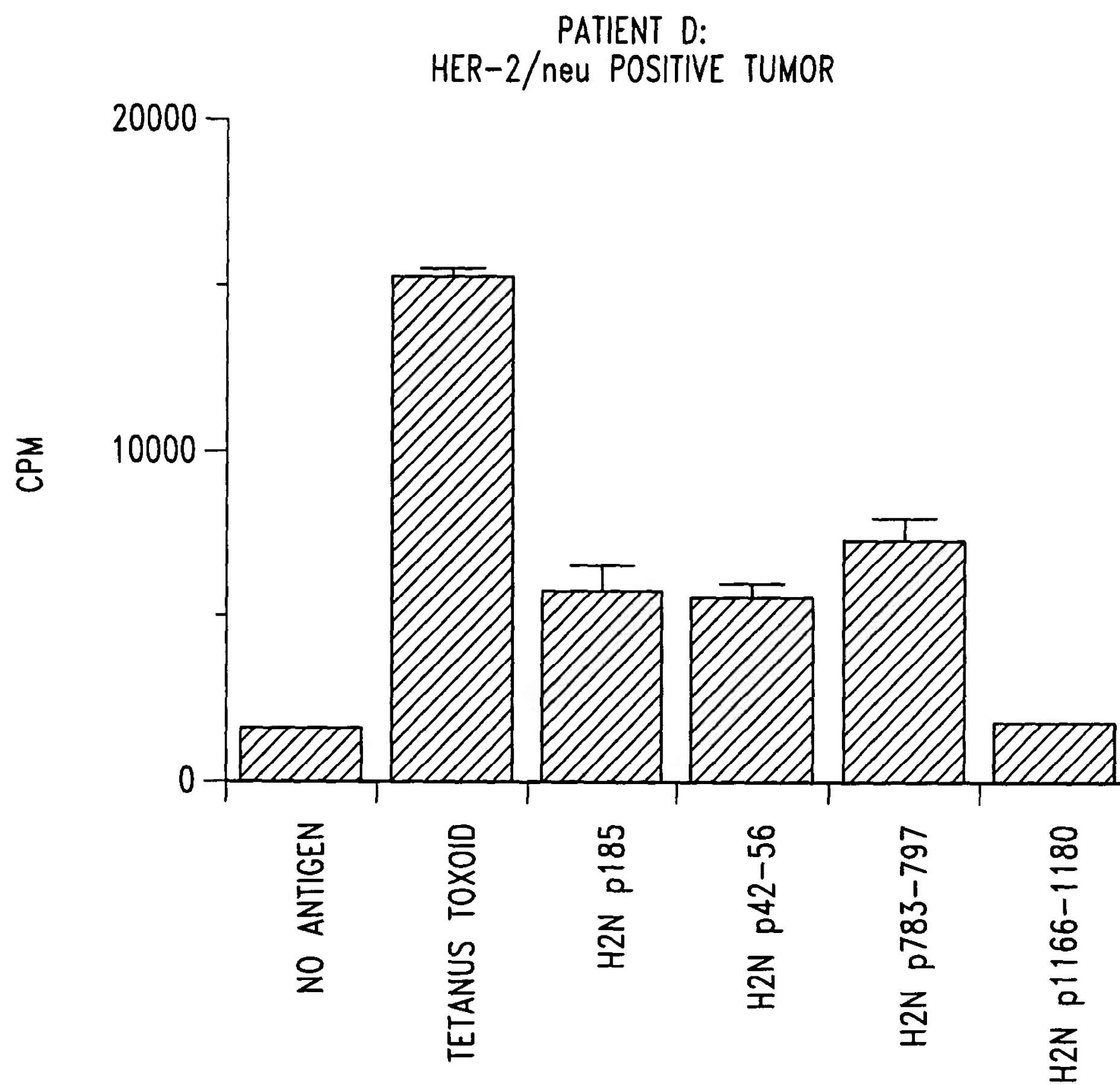
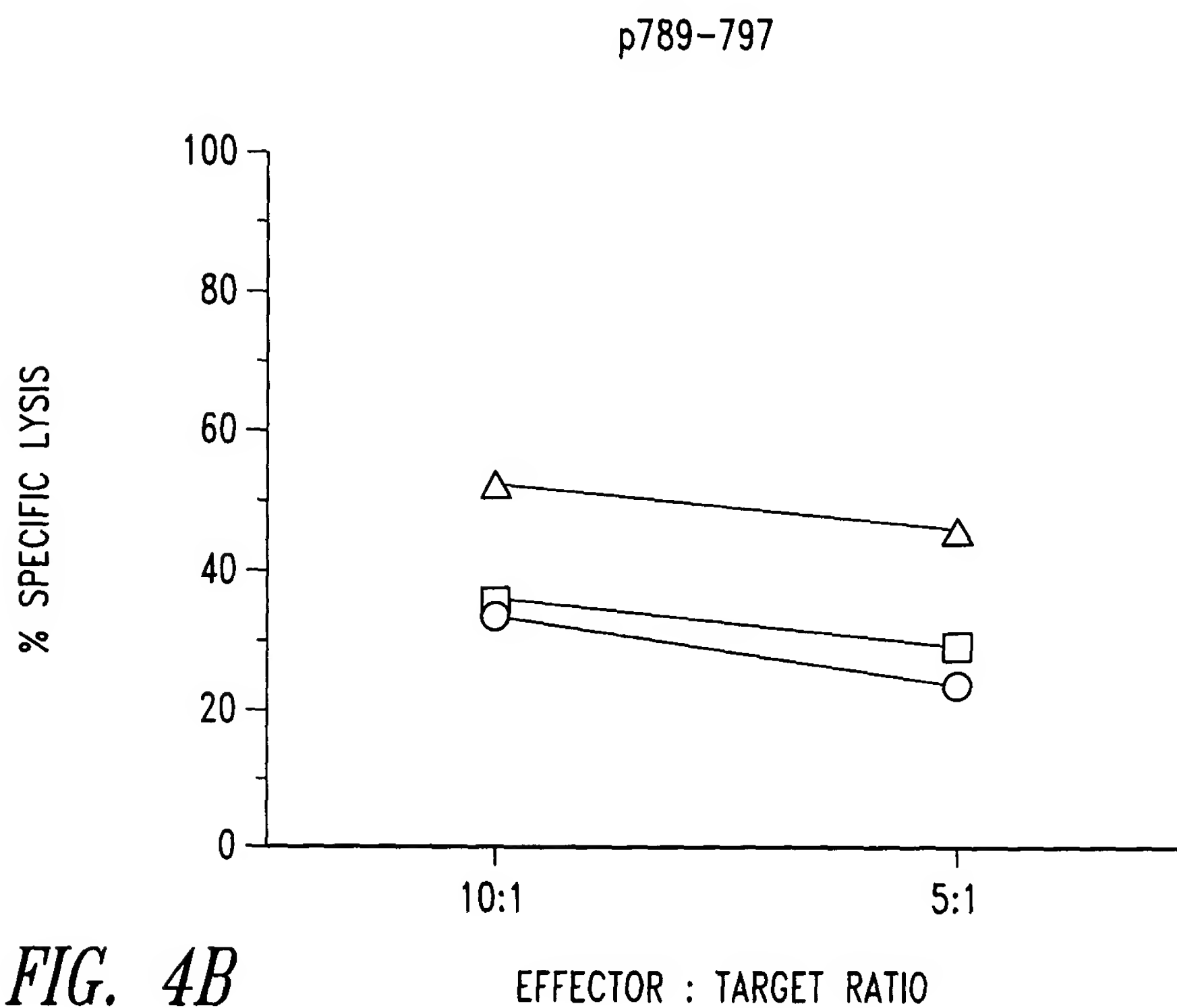
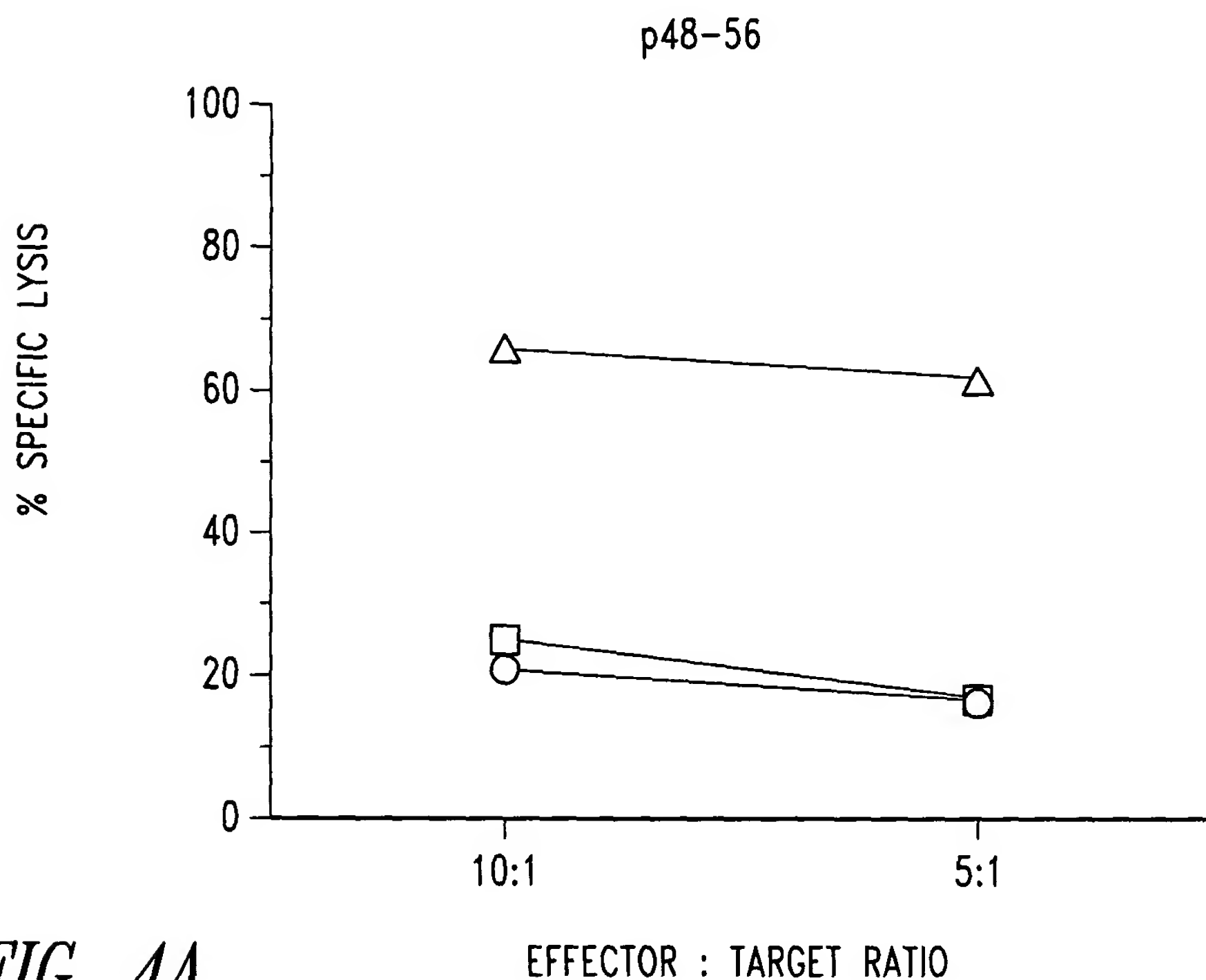


FIG. 3D



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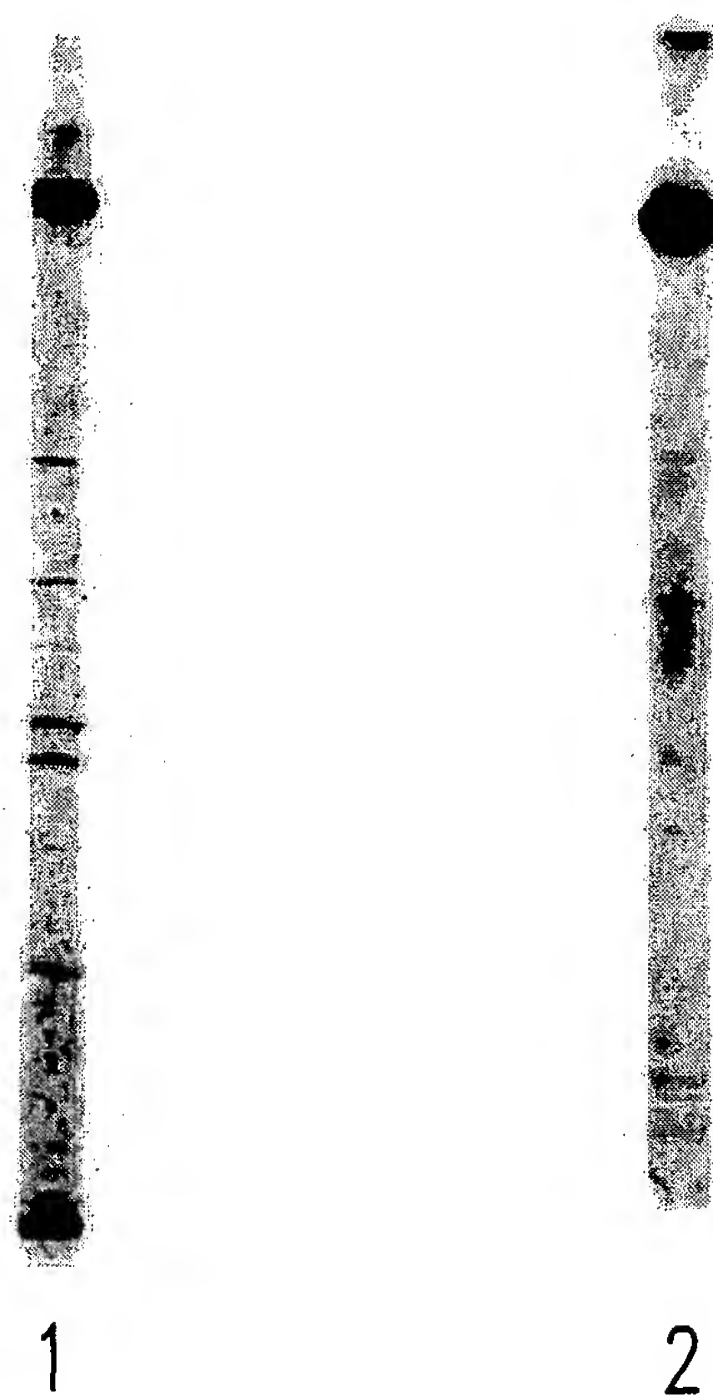


FIG. 5

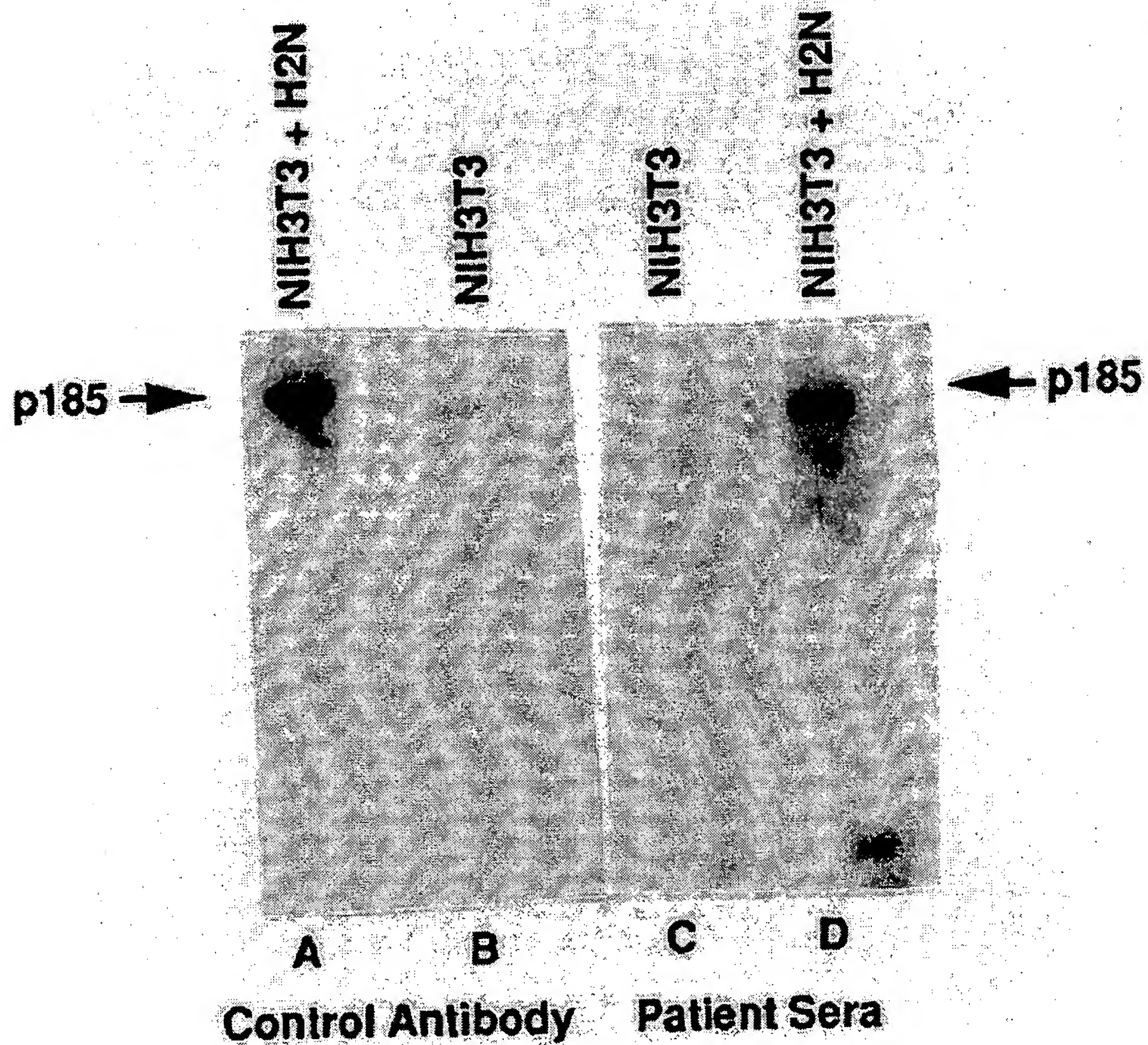


FIG. 6

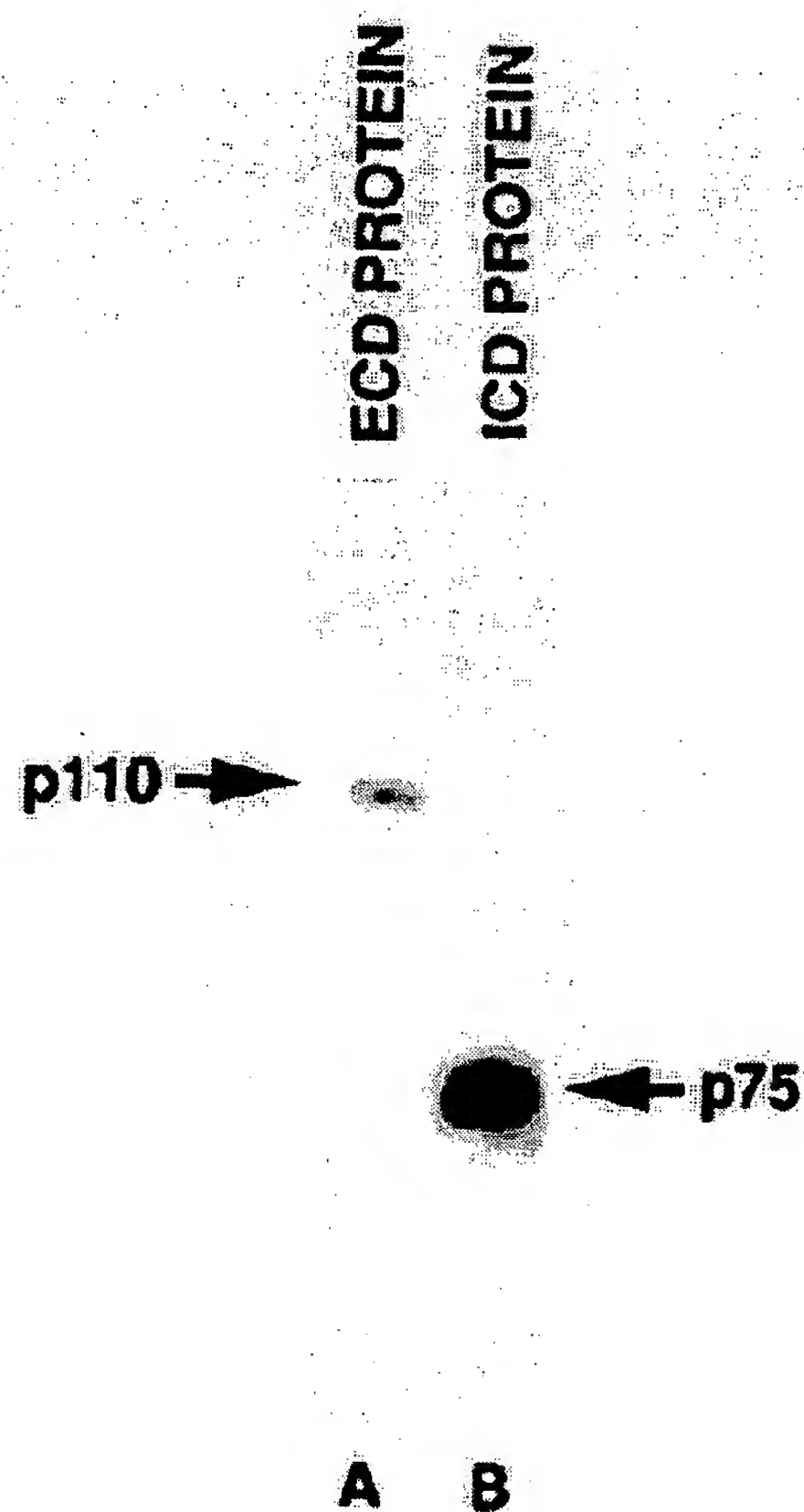


FIG. 7

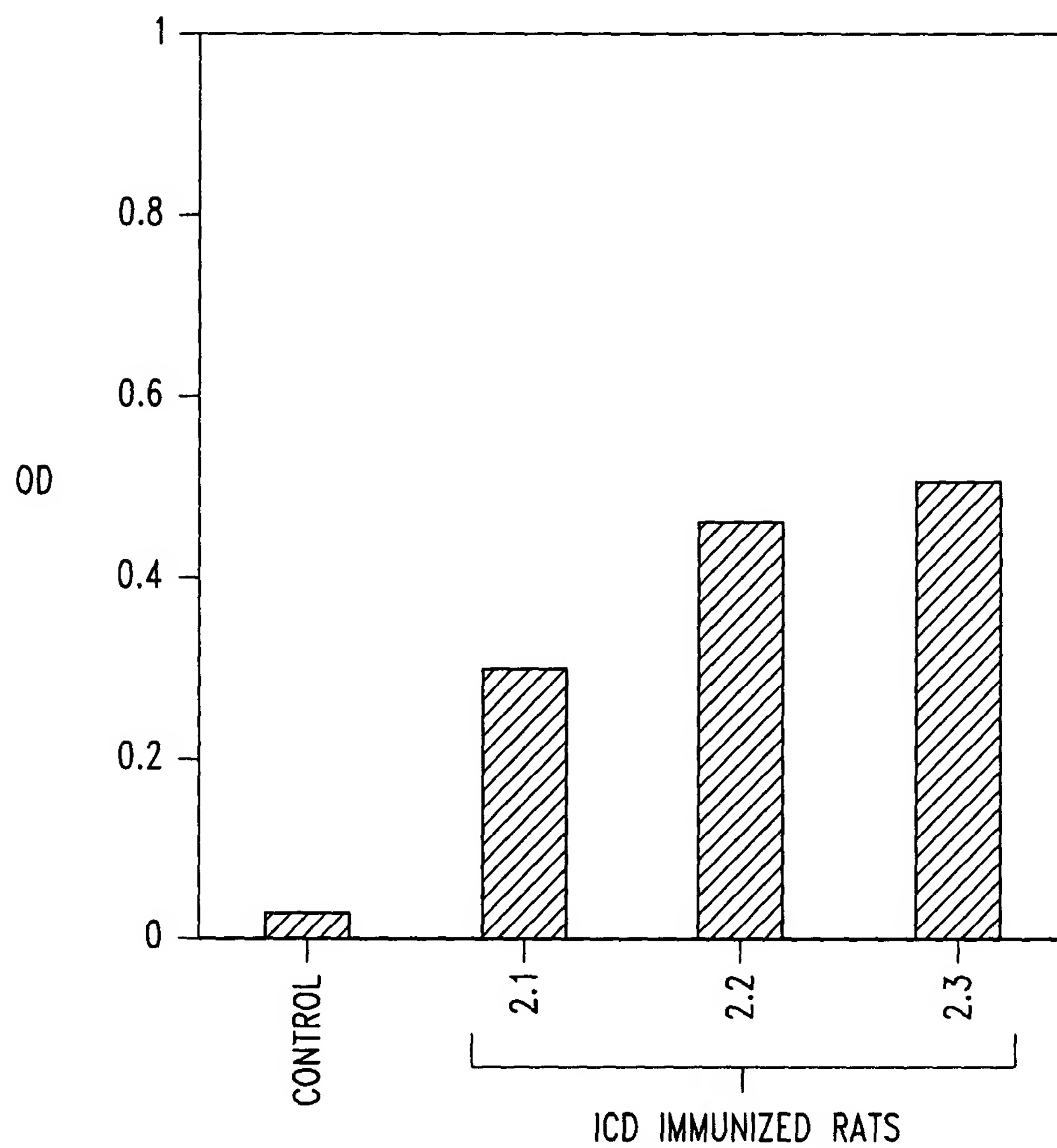


FIG. 8

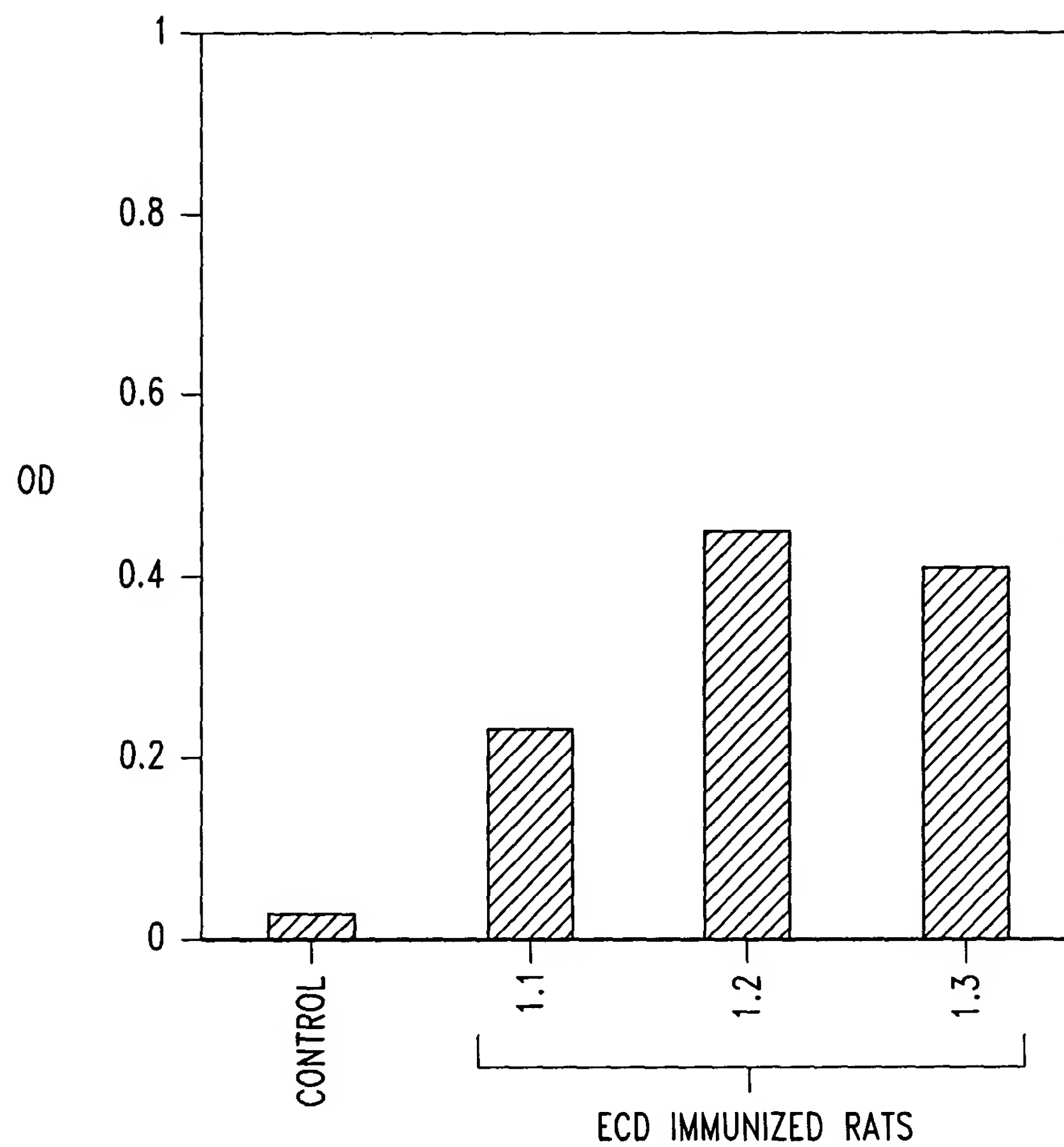


FIG. 9

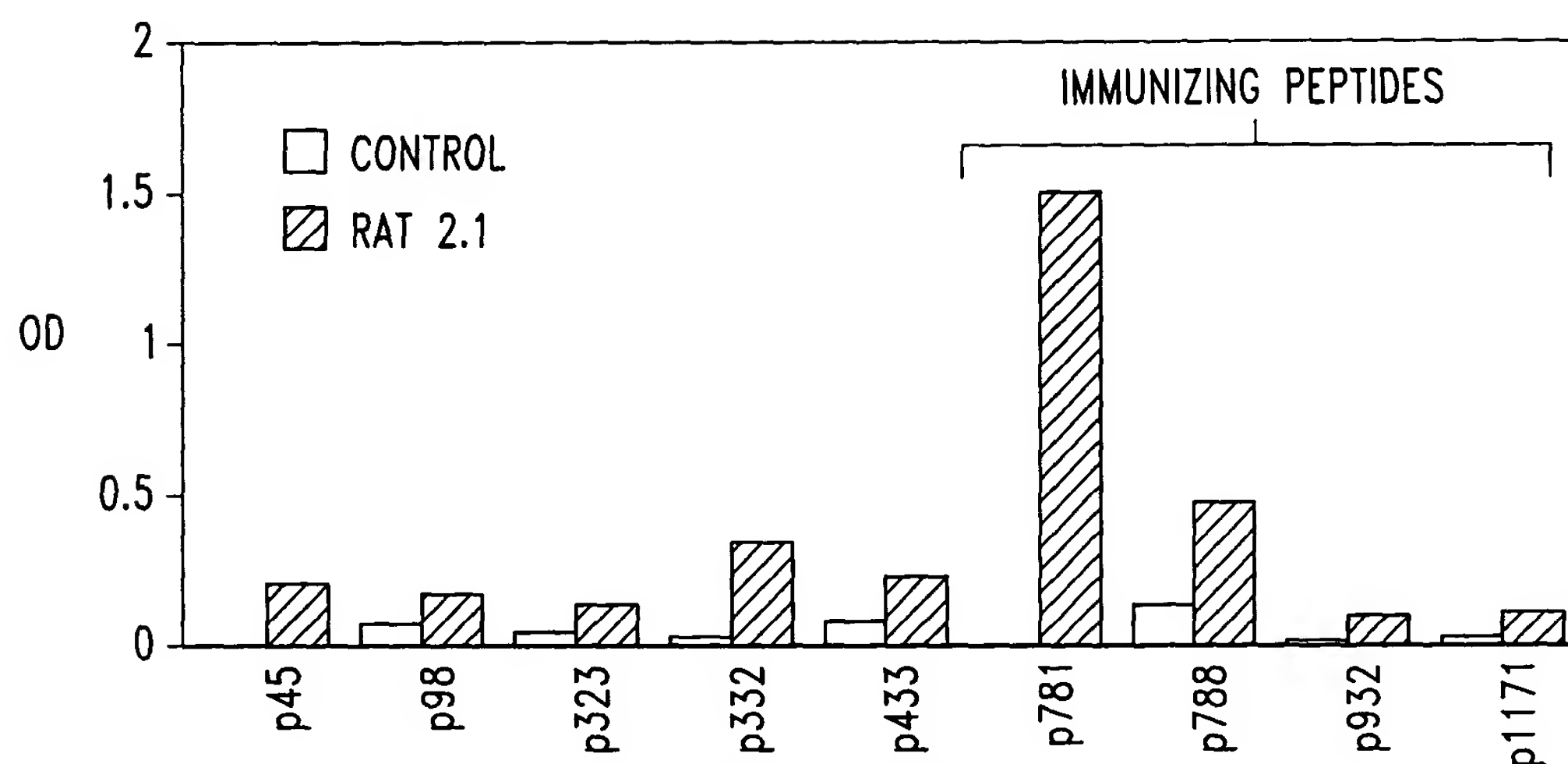


FIG. 10A

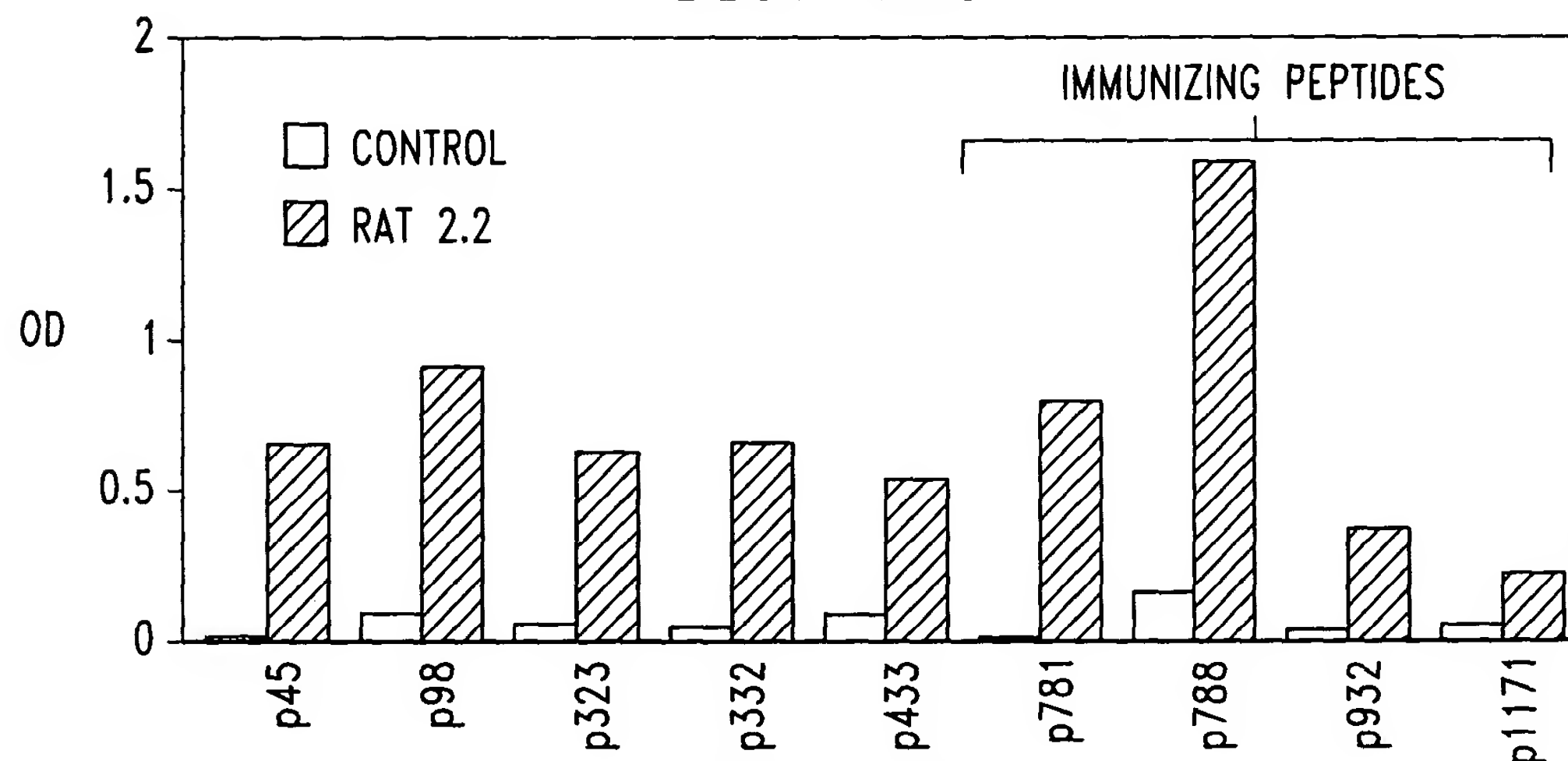


FIG. 10B

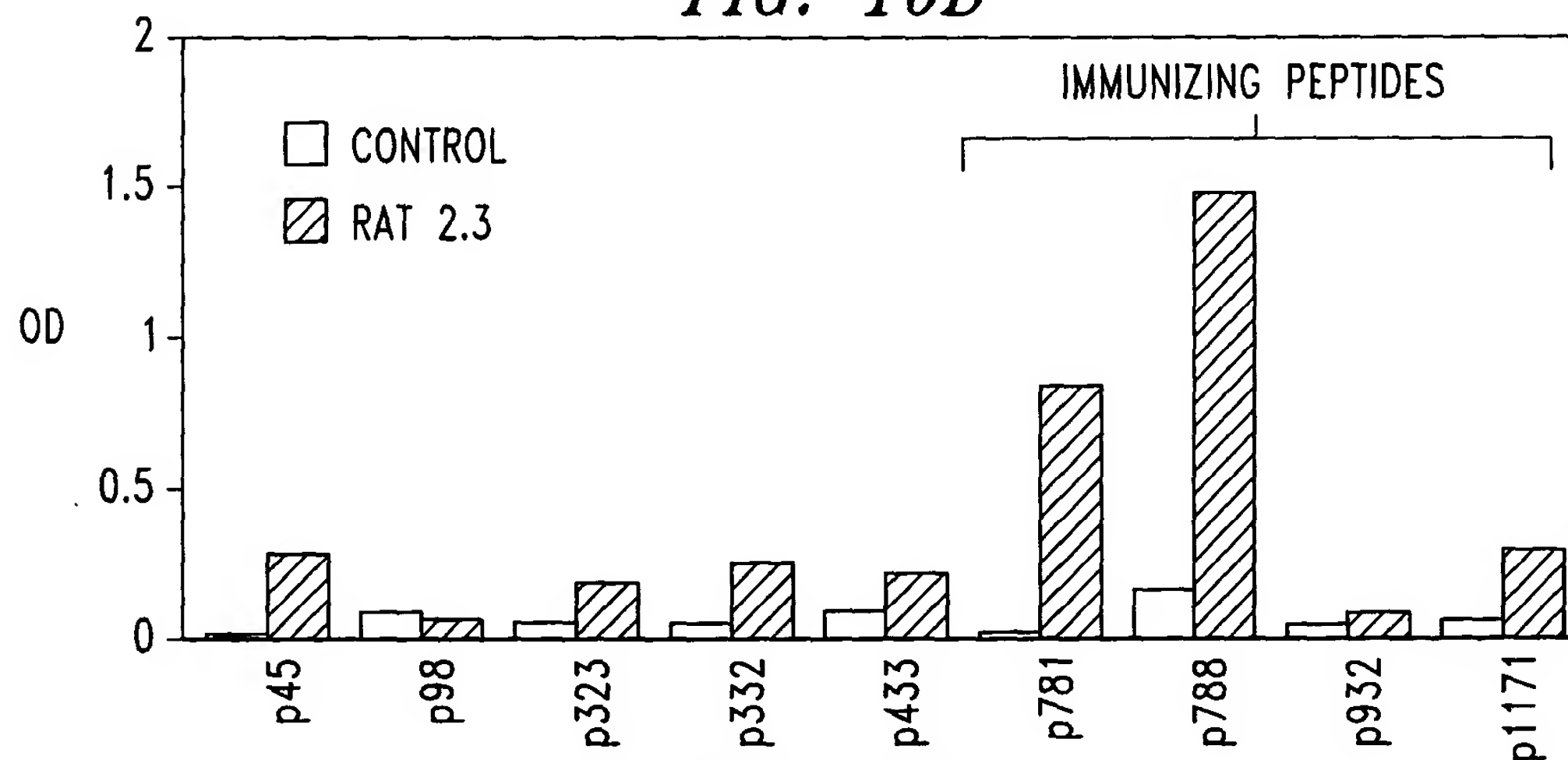


FIG. 10C

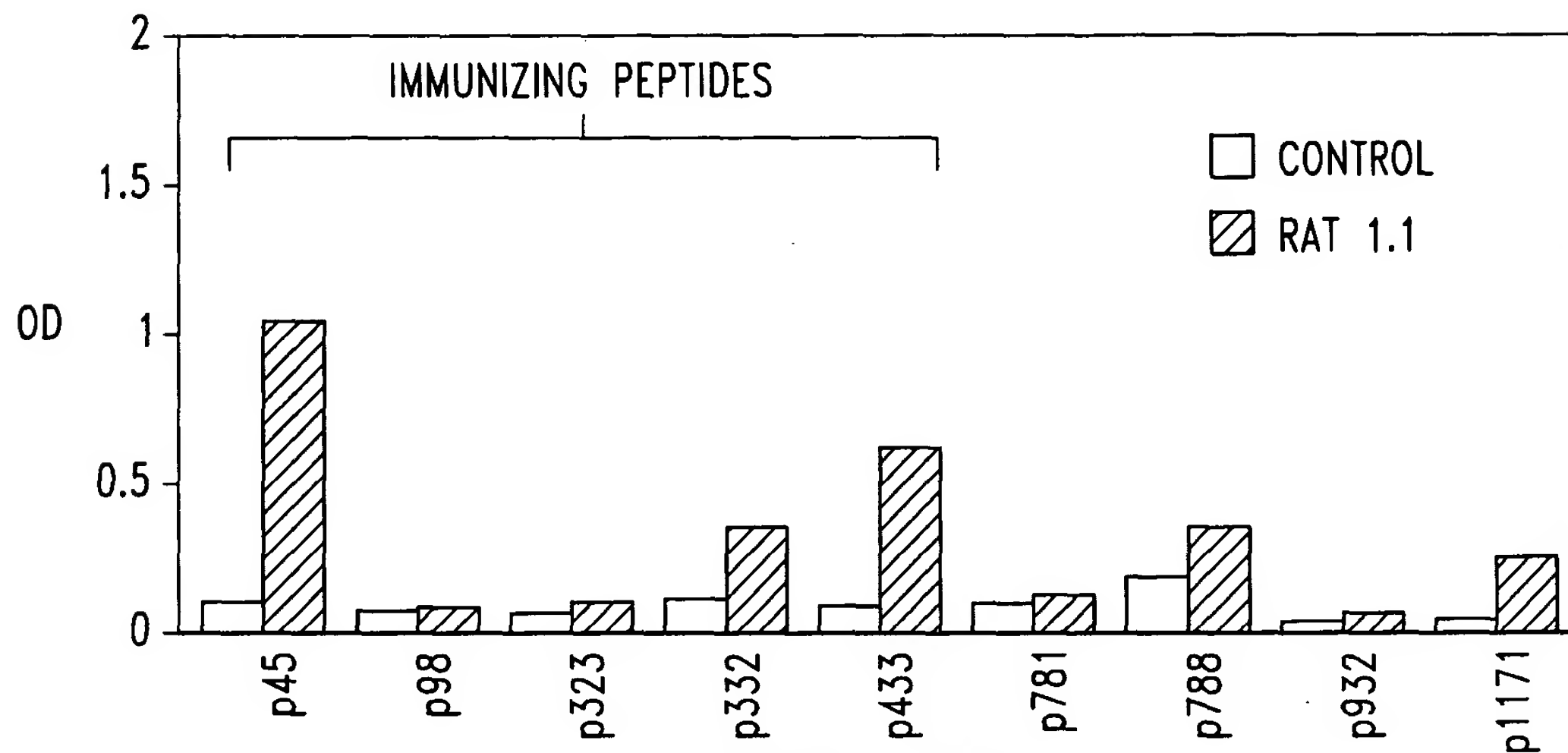


FIG. 11A

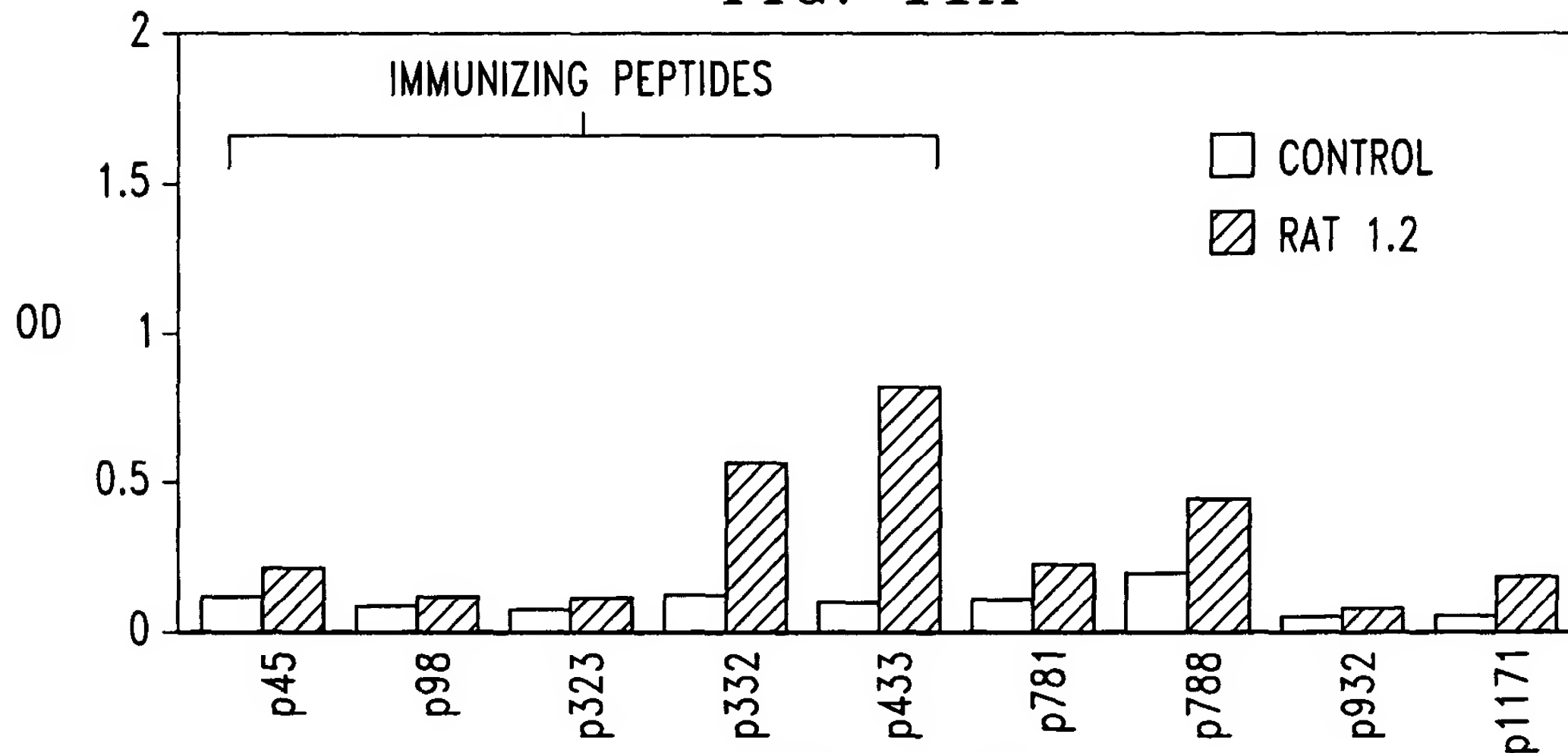


FIG. 11B

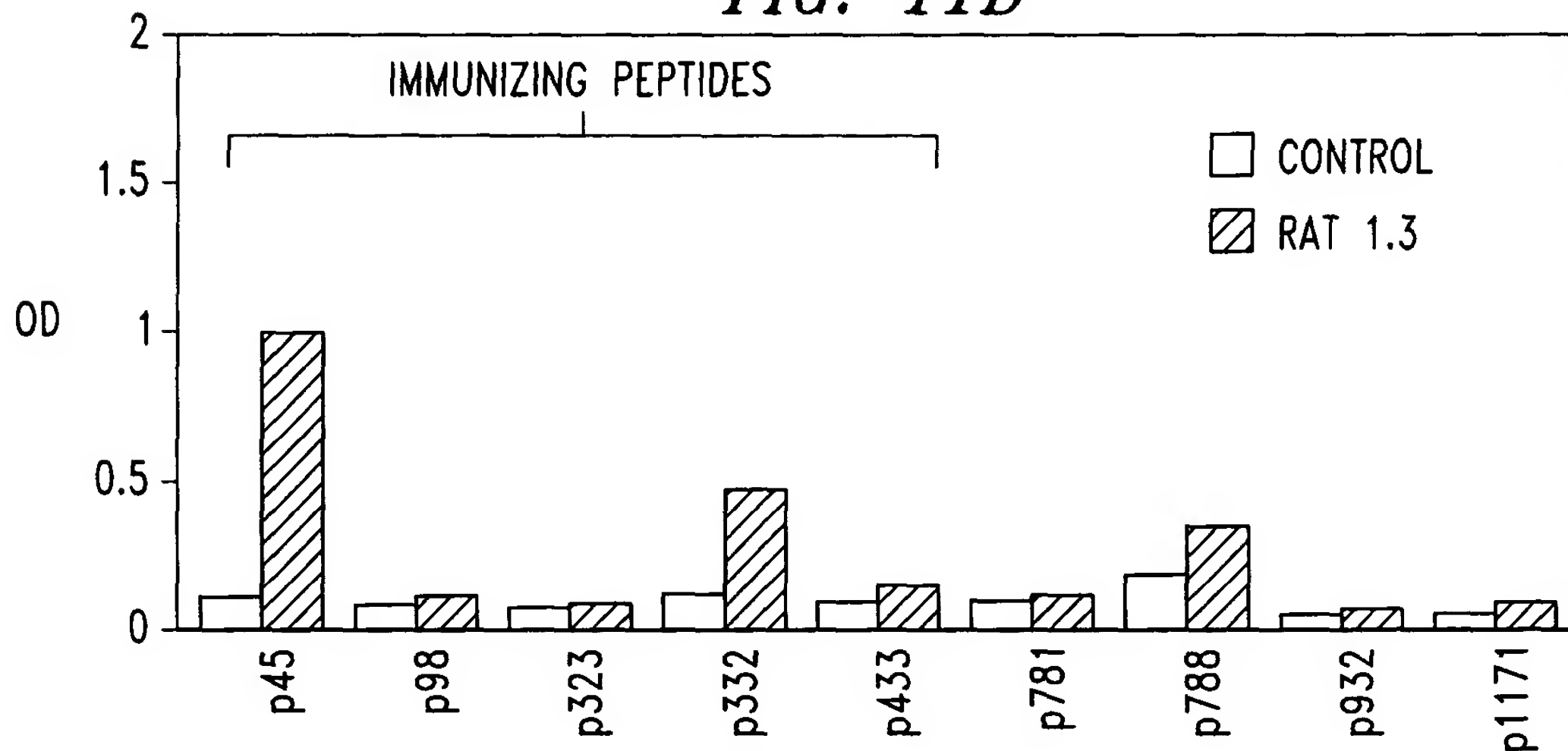


FIG. 11C

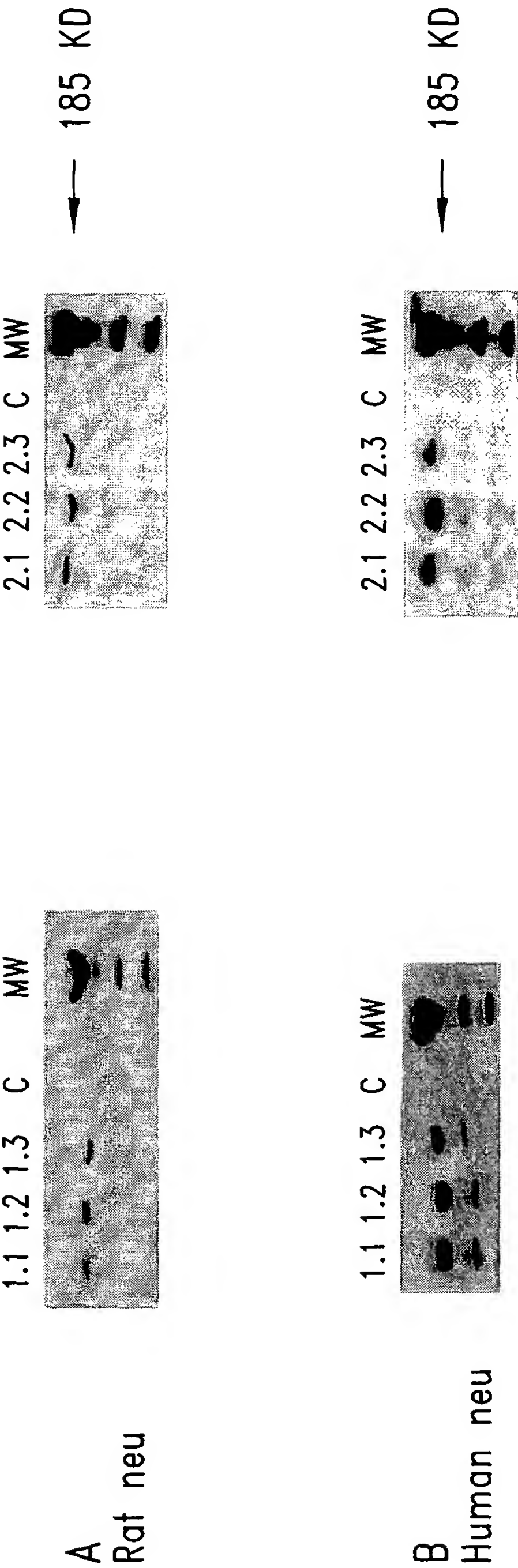


FIG. 12

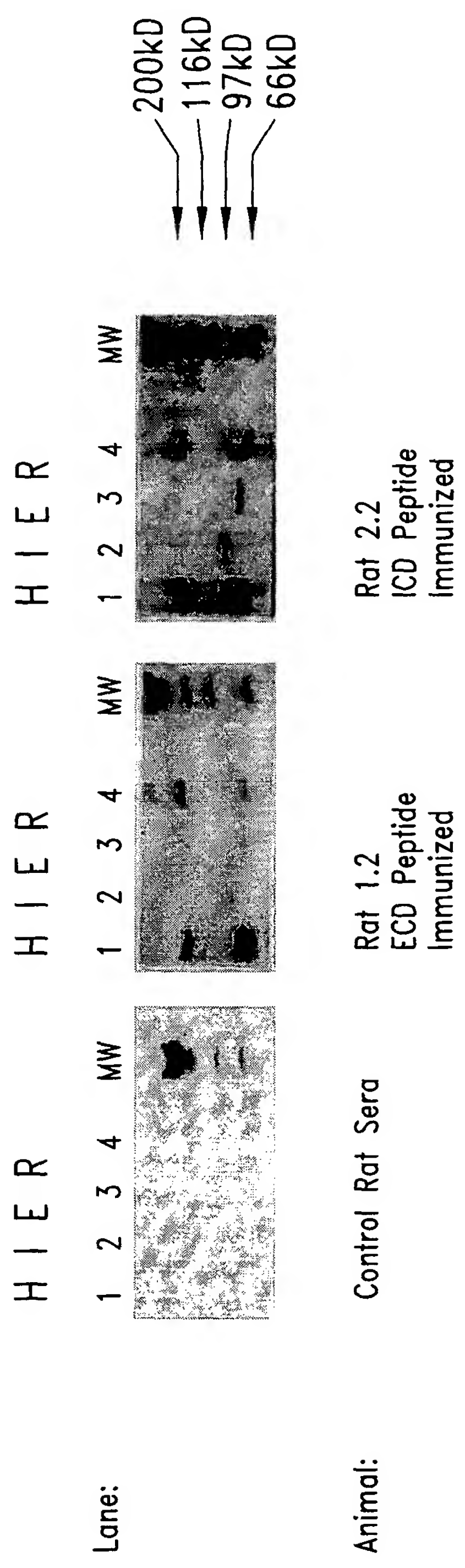


FIG. 13

FIG. 14A

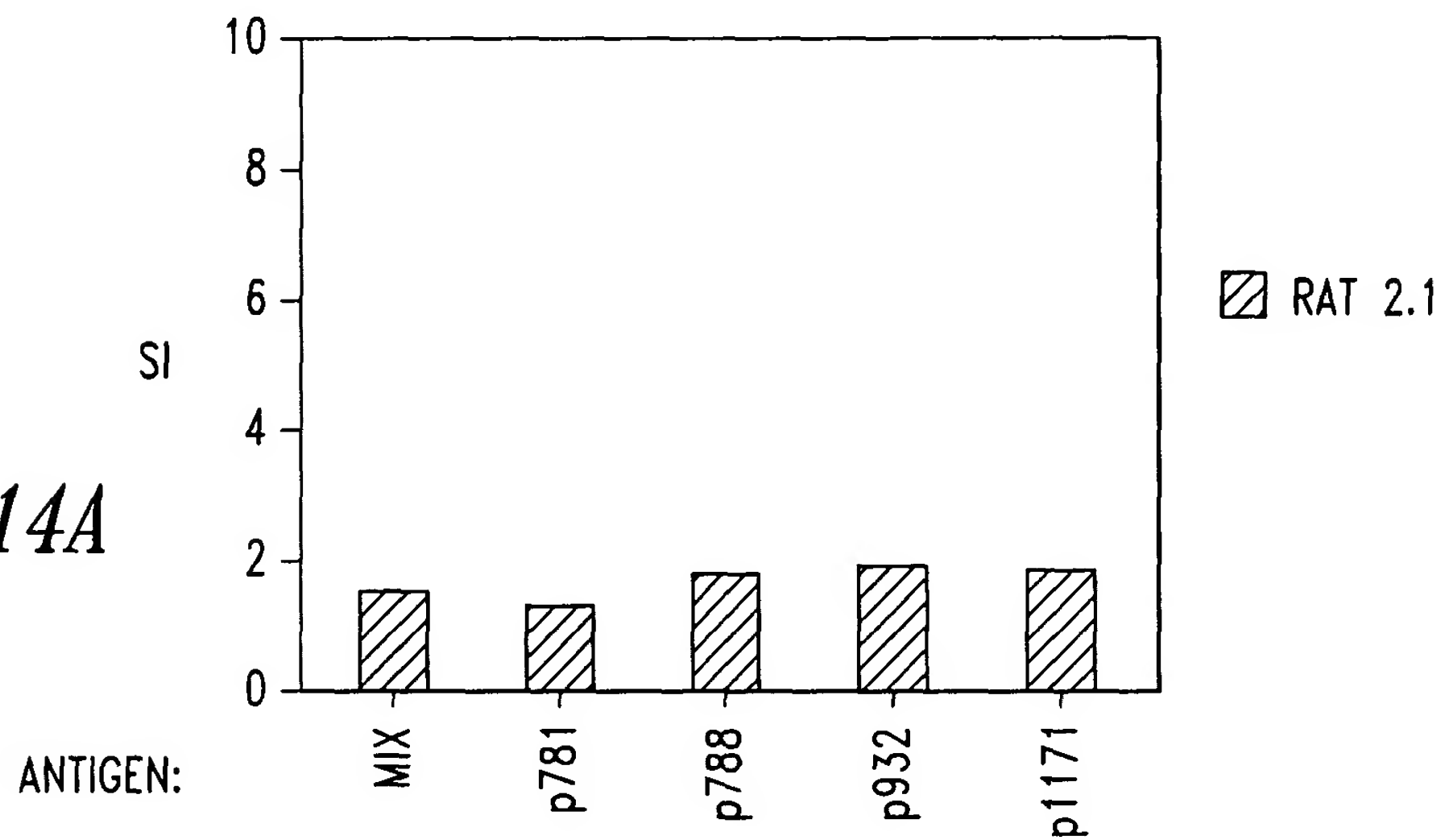


FIG. 14B

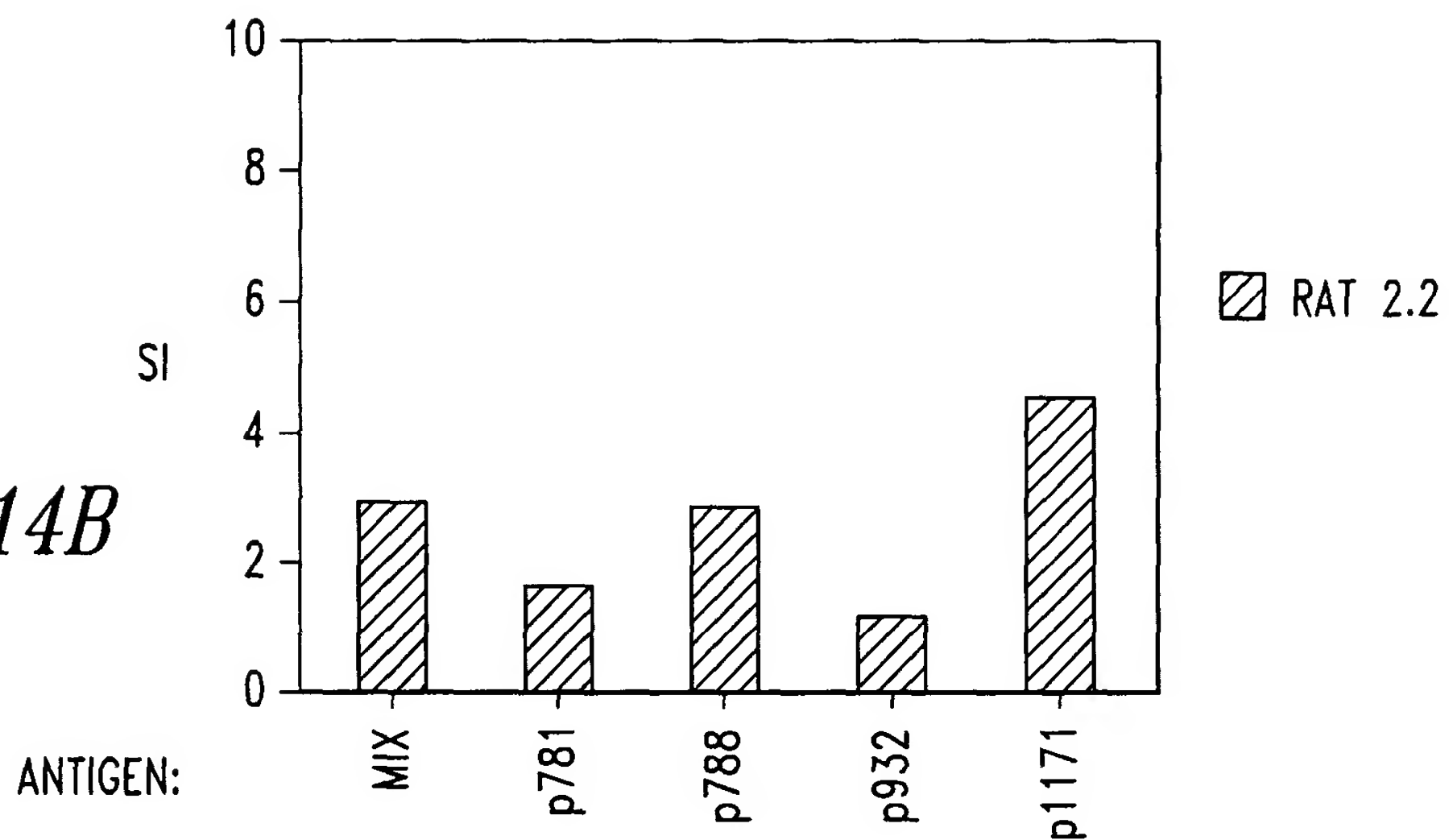
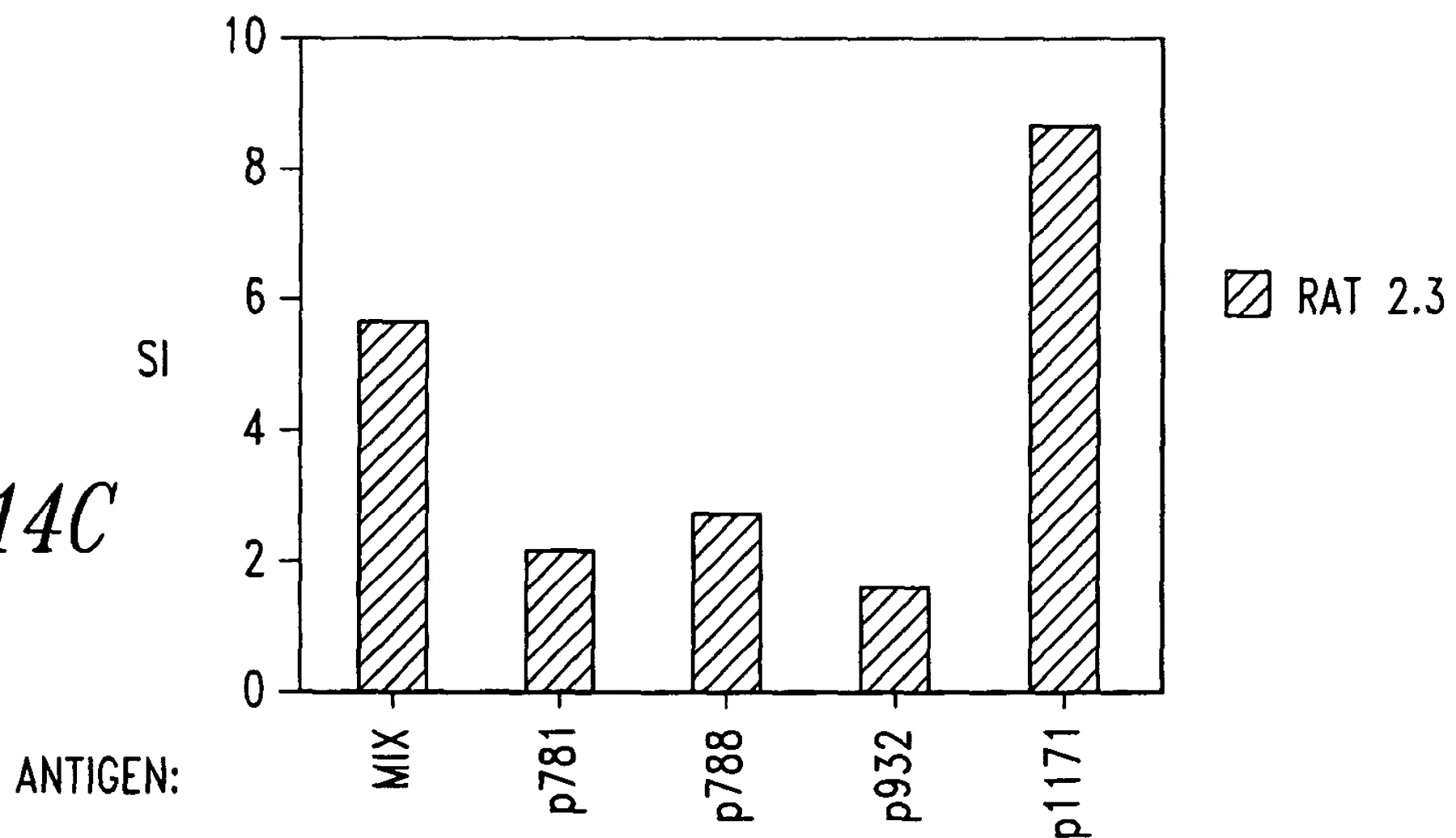


FIG. 14C



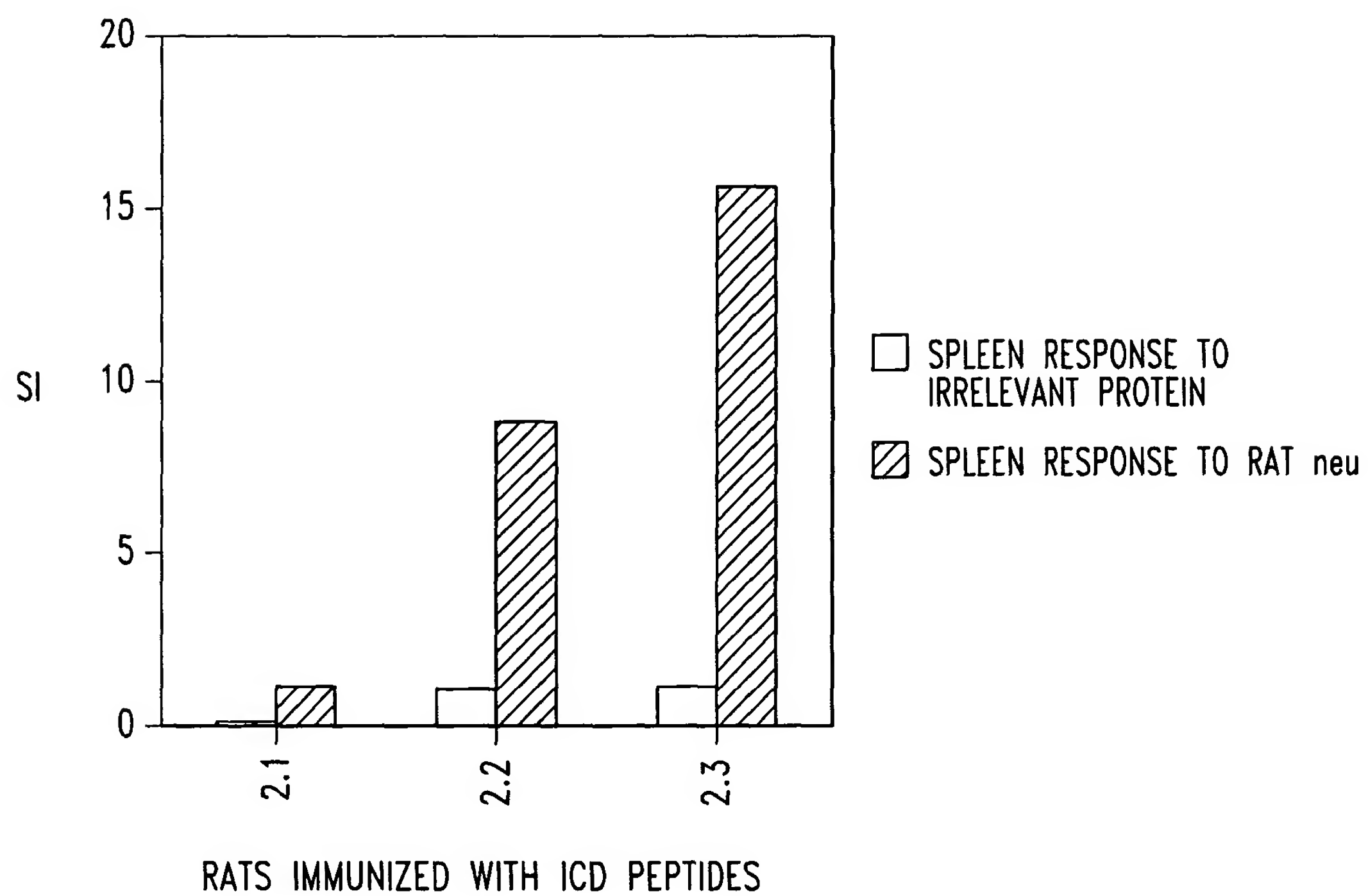


FIG. 15

FIG. 16A

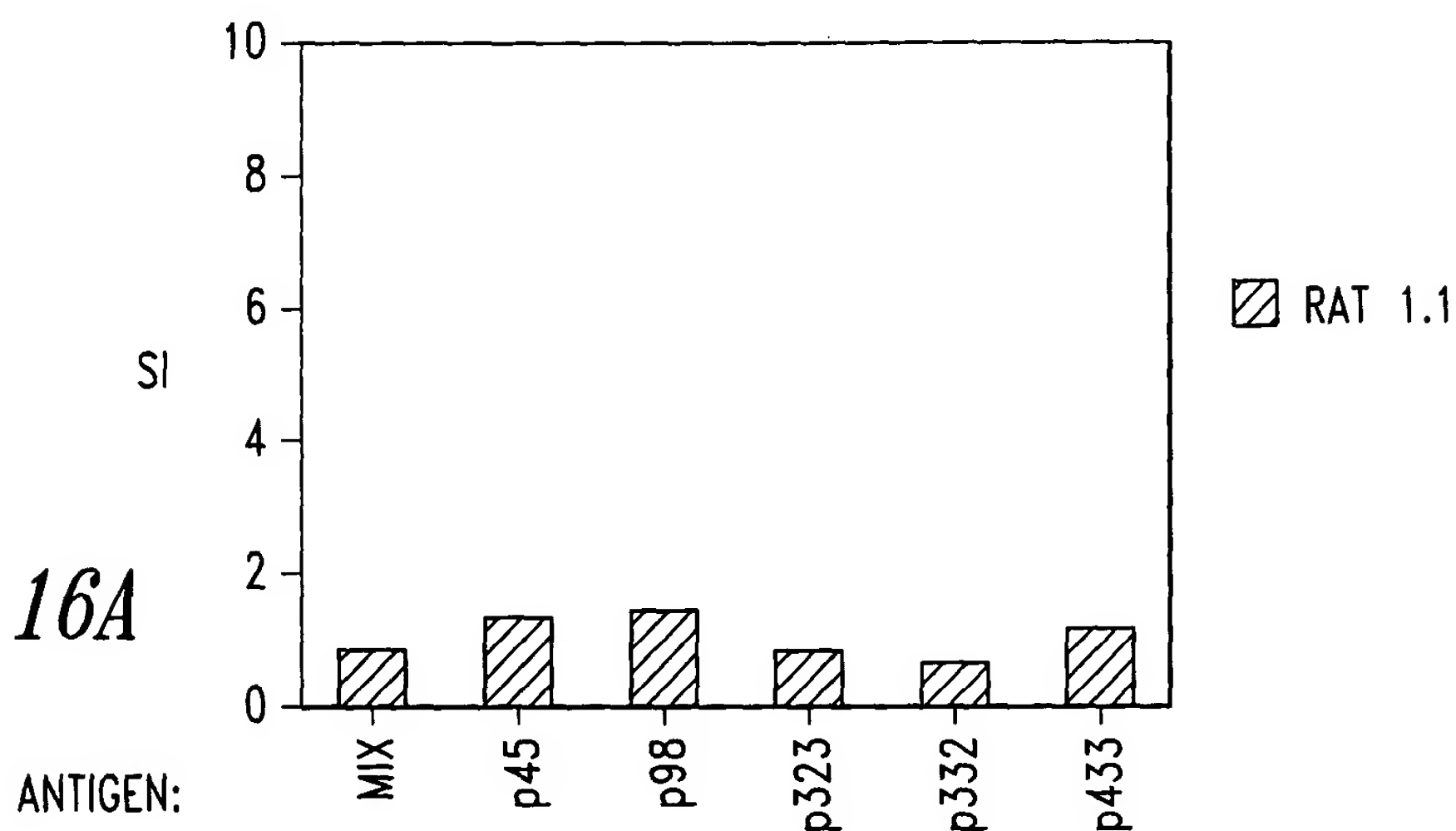


FIG. 16B

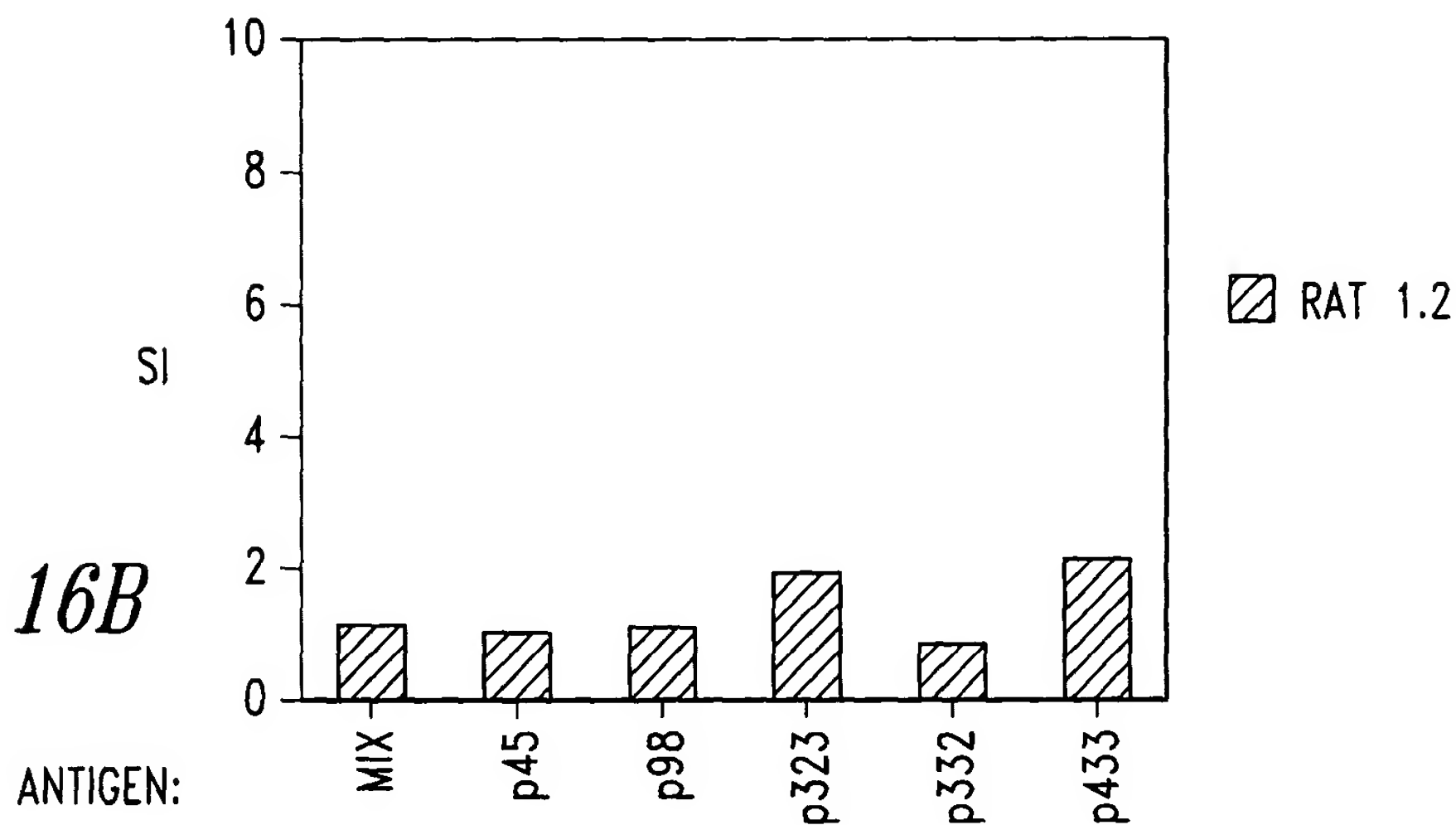
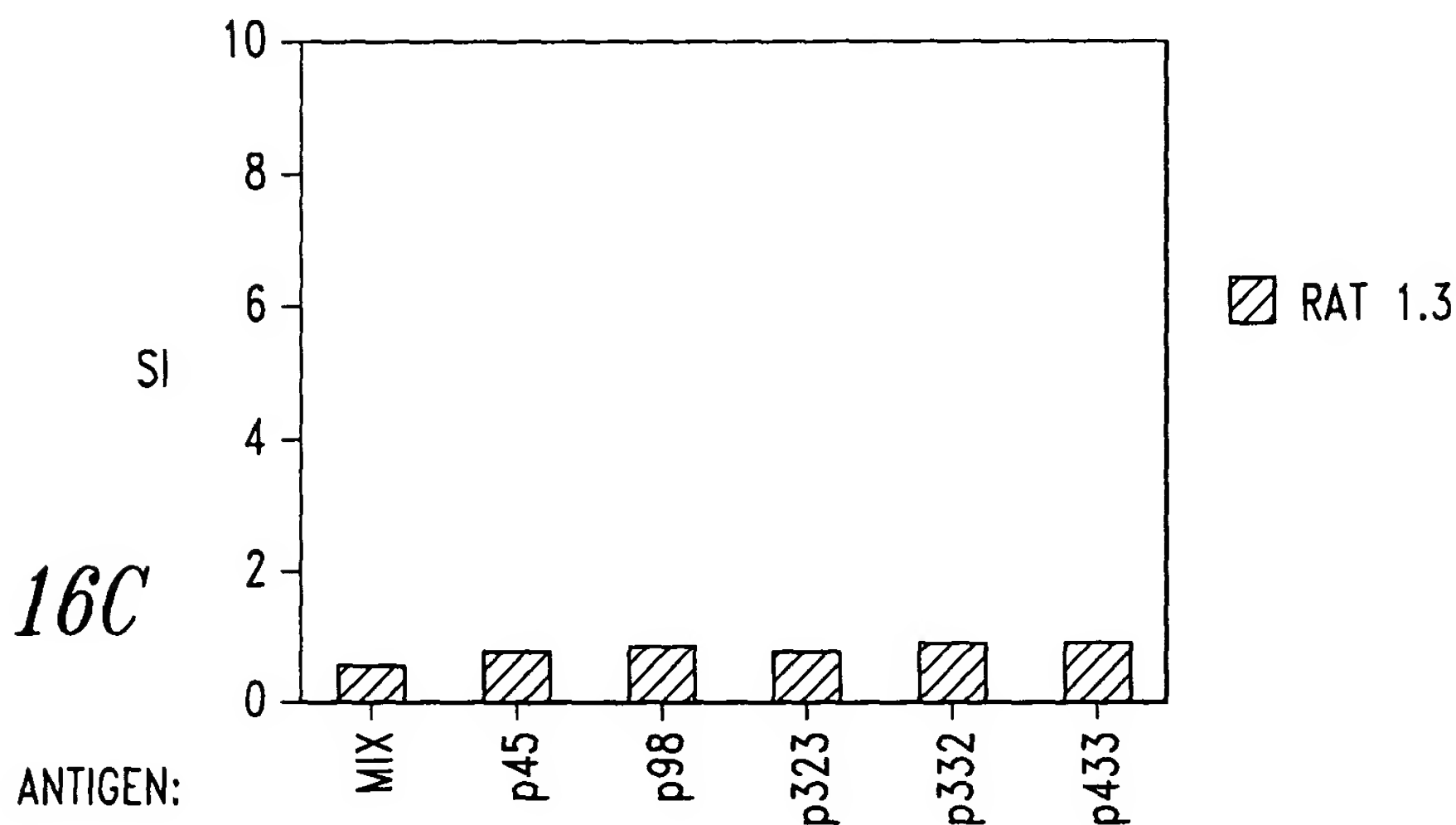


FIG. 16C



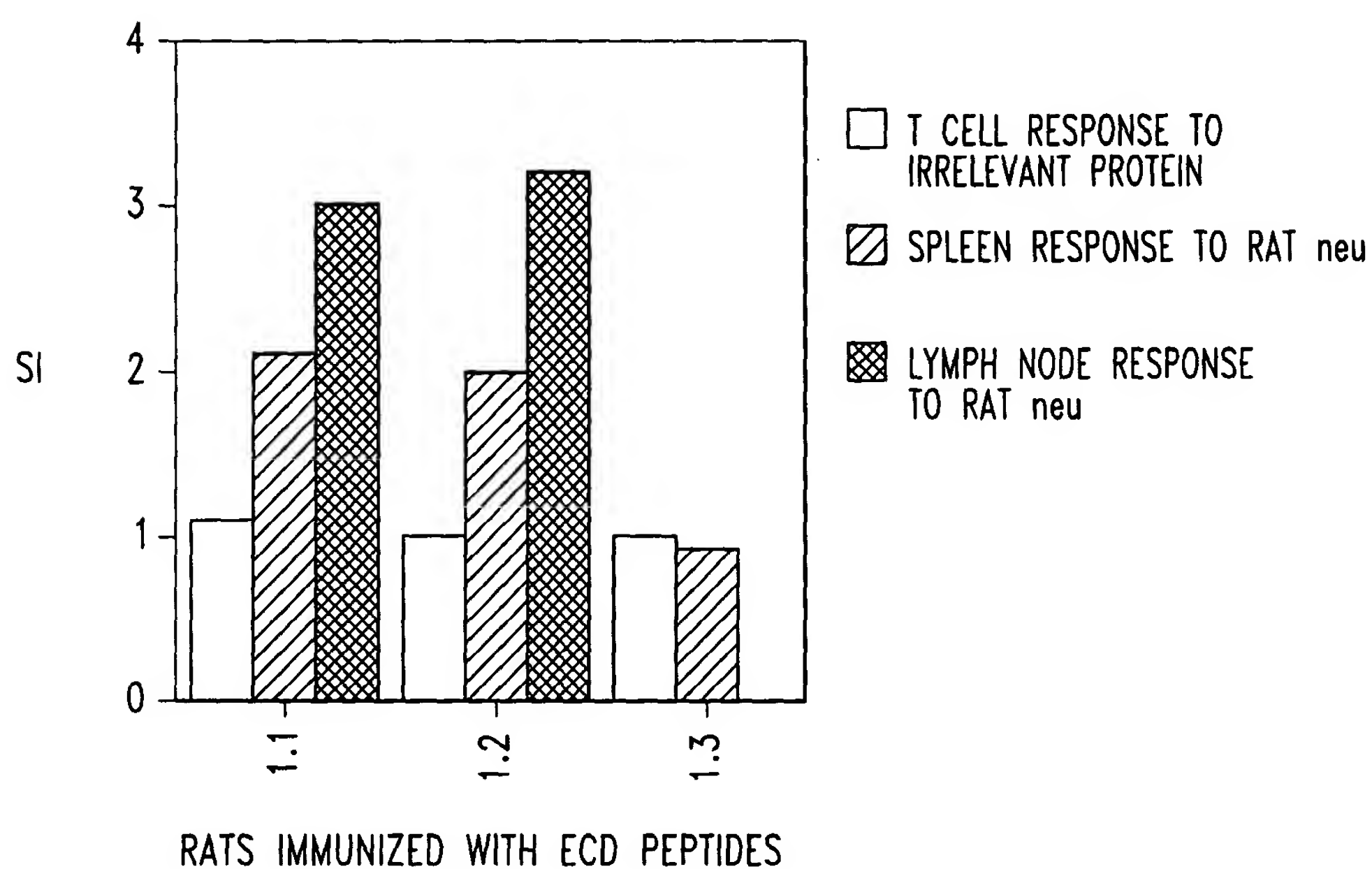


FIG. 17